



5656 Opportunity Drive  
Toledo, OH 43612  
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May 18, 1992

Mr. Gary Sanderson  
Case Manager, Bureau of ECRA  
New Jersey Department of Environmental Protection and Energy  
401 E. State Street, 5th Floor  
Trenton NJ 08625

MAY 20 10 39 AM '92  
BUREAU OF  
INDUSTRIAL  
EVALUATION

Re: April 1992 Monthly Project Status Report  
Former HEXCEL CORP. Site  
205 Main Street, Lodi Borough  
Bergen County, NJ  
ECRA Case No. 86009

Dear Mr. Sanderson:

On behalf of HEXCEL CORPORATION, Heritage Remediation/Engineering, Inc. (HR/E) has prepared this monthly status report of remedial activities performed at the above reference site. This report is in partial fulfillment of paragraph 36 of the August 7, 1991 conditional approval letter requiring the submittal of a monthly status report and describes activities performed over the period from April 1, 1992 to May 1, 1992.

Should you have any questions or concerns, please do not hesitate to call.

Respectfully,  
Heritage Remediation/Engineering, Inc.

Robert R. Beckwith, CPG  
Senior Hydrogeologist

Attachments

cc: A. William Nosil  
Lisa Bromberg  
Rob Powell  
James Higdon  
Essam Eldin E. Saleh  
Joseph Ritchey

92RB2034.T1



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**APRIL 1992  
MONTHLY PROJECT STATUS REPORT  
FOR  
FORMER HEXCEL INDUSTRIAL  
CHEMICALS FACILITY**

**Lodi Borough, Bergen County  
Lodi, New Jersey**

**ECRA Case #86009**

**Submitted to:**

**New Jersey Department of Environmental Protection and Energy  
Bureau for Environmental Cleanup Response Activities  
401 East State Street, 5th Floor  
Trenton, New Jersey 08625**

**Prepared by:**

**Heritage Remediation/Engineering, Inc.  
5656 Opportunity Drive  
Toledo, Ohio 43612**

**May 18, 1992**

**884130002**

## STATUS ON IMPLEMENTATION OF THE CLEAN-UP PLAN

During the period from April 1, 1992 to May 1, 1992 Heritage Remediation/Engineering, Inc. (HR/E) installed two monitoring wells, conducted an evaluation of ground water and non-aqueous phase liquids (NAPLs), and performed field activities for soils delineation.

### **A. GROUND WATER**

#### Collection of Basement Seepage Water

The air stripping towers and incinerator were operated in April 1992, treating 3,800 gallons of basement seepage water.

#### Upper Overburden Aquifer

During April 1992, water levels were measured, two monitoring wells (MW-32 and MW-33) were installed and sampled, and ground-water samples were obtained from CW-1 and CW-2, on the eastern portion of the site, and from CW-10. These samples were analyzed for VO+15 compounds.

#### *Monitoring Well Installation*

Monitoring wells MW-32 and MW-33 were installed as per NJDEPE's July 12, 1991 letter and March 5, 1992 letter. Permission for site access from the Partner's Deli (across Main Street) property for installation of MW-34 was denied by the property owner. Soil boring logs with photoionization detector (PID) readings and well completion diagrams are included as Appendix A. A copy of the letter to Mr. Pranzo, the property owner, is attached in Appendix B.

MW-32 and MW-33 were installed along the east fence behind Vincenzo's Restaurant. These wells (originally called proposed MW-35 and MW-37) consist of 4-inch diameter PVC material, and were installed to the top of the clay layer. MW-32 was advanced to eight feet where a silty clay was encountered. This well was constructed with six feet of 0.010-inch slotted PVC screen to intersect the

water table. MW-33 was advanced to 16 feet where a brown clay was encountered. This well was constructed with 10 feet of 0.010-inch slotted PVC screen to intersect the water table.

A truck-mounted drill rig was used to install the monitoring wells. The bore holes were continuously sampled with a standard split-spoon sampler for geologic characterizations during hollow stem auger advancement. Also, the PID was utilized as a screening tool to assess potential vapor impacts at both bore hole locations.

A sand filter pack surround the screen with a bentonite seal on top of the sand, while the remainder of the annulus was backfilled with a cement/bentonite slurry. The monitoring wells were finished at the surface with above ground protective outer casings.

Recently installed wells and previously inaccessible wells were added in the site survey according to the New Jersey Plane Coordinate System. The on-site portion of this task was performed on April 24, 1992 by New Jersey licensed professional land surveyor, Albert N. Faraldi Group, Secaucus, New Jersey. Results of the surveying were not available at this time, but will be included in the May status report due about June 15, 1992.

#### *Ground-Water Sampling and Analysis*

Ground-water samples were obtained from MW-7, MW-9, MW-32, MW-33, CW-1, CW-2, and CW-10 for VO+15 analysis. These wells were sampled after they had been purged of well casing water with a pneumatic purge/sample pump. A new dedicated teflon bailer was utilized for each well sample. Results of the analysis were not available at this time, but will be included in the May status report due about June 15, 1992.

### *Evaluation of MW-27*

As per the March 5, 1992 NJDEPE letter and March 17, 1992 meeting, MW-27 was evaluated by conducting a short duration pumping test of the well. A pneumatic displacement Pulse Pump<sup>®</sup> manufactured by QED was utilized to remove water from MW-27 and discharge into a 55-gallon drum for on-site treatment. This well would produce only 0.25 gallons per minute. During the pumping, the discharge was inspected for visual indications of DNAPL. No DNAPL was observed, and the pH was approximately 7 units during the evaluation. After removing approximately 50 gallons of water, the water discharge color changed from clear to white in appearance, with no noticeable change in odor. No drawdown effects were observed in nearby monitoring wells MW-4 and MW-5.

### *Water Level Monitoring Program*

Static water levels were collected between April 8 and 13, 1992. Figure 1 represents ground-water contours of the upper overburden aquifer. This map shows a ground-water mound existing in the alley between the Administration Building 4 and Building 2. The contour map also reflects ground-water depression by the sump in Building 1.

A Ground-Water Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent ground-water measurement data from a representative set of monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

### Lower Overburden Aquifer

During April 1992, water levels in the lower overburden aquifer were measured, and ground-water samples were collected from MW-7 and MW-9 to evaluate their integrity.

### *Water Level Monitoring Program*

Static water levels were collected between April 8 and 13, 1992. Figure 2 represents ground-water contours of the lower overburden aquifer, which reflects ground-water contours nearly perpendicular with the Saddle River.

A Ground-Water Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent ground-water measurement data from a representative set of monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

### *Evaluation of MW-7 and MW-9*

To evaluate the integrity of monitoring wells MW-7 and MW-9, ground-water samples were obtained from the wells after they have been purged of well casing water with a pneumatic purge/sample pump. Recovered water was containerized in 55-gallon drums for on-site treatment. The ground water was analyzed for VO+15. If the analytical results are about the same concentrations as previously reported, the two wells will be properly abandoned as per, or better than NJDEPE requirements. If the analytical results show higher concentrations of VOCs than previously reported, the two wells will be replaced with double cased monitoring wells constructed with stainless steel screens and galvanized steel risers. Results of the analysis were not available at this time, but will be included in the May status report due about June 15, 1992.

### Bedrock Aquifer

To comply with NJDEPE's July 12, 1991 and March 5, 1992 letters, a packer test was performed on Fine Organics production well. Two subtasks were conducted to evaluate the extent of hydraulic connection between the lower overburden aquifer and bedrock aquifer; (1) completion of the packer tests with some modifications, and (2) performance of a 24-hour pumping test of the production well. Data from both tests are being

reduced and interpreted at this time. Results will be presented at a later date in a "Bedrock Aquifer Characterization Report".

## B. SOILS

### Pilot Soil Vapor Extraction

A proposal for a pilot soils cleanup plan has been delayed until completion of soils delineation sampling which was implemented in April 1992. Laboratory results from soils delineation sampling have not been received at this time, but will be included in the May Status report due about June 15, 1992. A proposal for pilot testing of a soil vapor extraction system will be prepared and submitted as part of the soils cleanup plan. We anticipate a submittal date of September 15, 1992.

### Soils Delineation Sampling

Soil borings were installed at locations as per NJDEPE letter dated December 23, 1991 in response to Hexcel's Proposed Remedial Investigation Activities dated August 8, 1991 for soil delineation sampling, and as per the NJDEPE letter dated March 5, 1992 and meeting on March 17, 1992. During the week of April 20, 1992, the following soil borings and monitoring wells were installed: Borings 113, 507 (MW-32), 508, 613, and MW-33. Figure 3 is attached showing approximate boring and well locations. Soil boring logs with photoionization detector (PID) readings and well completion diagrams are included as Appendix A.

Soil boring 114 was not installed do to overhead high voltage cables, and underground water utility and natural gas lines. Also, soil boring 1304 was not installed. Samples from this location will be obtained when a treatment system discharge line is constructed to the M1 manhole industrial sewer.

The borings were continuously sampled with a standard split-spoon sampler for geologic characterizations during hollow stem auger advancement. A PID was utilized as a screening tool to assess potential vapor impacts at all bore hole locations. Sample

containers designated for PID screening were allowed to reach ambient room temperature prior to screening. The soil samples were placed in 8-ounce glass jars and preserved at approximately 4 degrees C.

The bore holes were backfilled with cement and bentonite, and the last two feet was sealed with cement according to NJDEPE specifications. Soil cuttings were drummed for waste characterization at a later date.

#### *Soils Laboratory Analysis*

Soil samples were submitted to All-Test Environmental Laboratories, Inc. under proper chain-of-custody procedures. The samples were analyzed for parameters as summarized in Table 1 for volatile organic compounds with a forward library search (VO+15), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), and priority pollutants plus 40 (PP+40). Laboratory analytical results have not been received at this time, but will be included in the May status report due about June 15, 1992.

**TABLE 1  
SOIL SAMPLING**

| LOCATION    | SAMPLES                      | ANALYTICAL |        |        |        |
|-------------|------------------------------|------------|--------|--------|--------|
|             |                              | VO+15      | TPH    | PCB    | PP+40  |
| MW-33       | High PID<br>Bottom sample    |            | X<br>X |        | X<br>X |
| 113         | 0-6" above SWL<br>5.5-6' bgs | X          | X      |        | X      |
| 613         | 0-6" above SWL<br>~2' bgs    | X<br>X     | X<br>X | X<br>X |        |
| 508         | High PID                     | X          |        |        |        |
| 507 (MW-32) | High PID<br>6" top of clay   | X<br>X     |        |        |        |



### **C. GROUND WATER TREATMENT SYSTEM OPERATION**

During this period 3,800 gallons of basement seepage water was treated for discharge to the PVSC. No water was discharged to the PVSC during this period.

### **D. DENSE NON-AQUEOUS PHASE LIQUID (DNAPL)**

#### DNAPL Recovery System

The primary DNAPL recovery wells (RW7-1 and RW7-5) no longer yield significant DNAPL. Observation of pumpage shows an intermittent discharge of slugs of slightly brown water with an occasional discharge of more concentrated DNAPL. The DNAPL recovery system was not operated during April 1992.

During site activities, HR/E with Essam Saleh separated water and DNAPL recovered in March 1992. Approximately 20 gallons of DNAPL was placed in a drum prior to shipment for disposal and 480 gallons of water was pumped to the treatment system.

#### DNAPL Monitoring Program

A DNAPL Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent DNAPL and ground-water measurement data from a representative set of DNAPL recovery wells and monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

The following Table 2 summarizes DNAPL thicknesses in wells which have shown the presence of measurable DNAPL. To date, approximately 1,270 gallons of DNAPL have been recovered from wells where DNAPL accumulates to measurable thickness.

**TABLE 2  
DNAPL THICKNESS SUMMARY**

| WELL  | DATE     | DEPTH TO DNAPL<br>(ft. below TOC) | DNAPL THICKNESS<br>(ft.) | COMMENT             |
|-------|----------|-----------------------------------|--------------------------|---------------------|
| RW7-1 | 8-28-90  | —                                 | ≈ 5                      | bailed              |
|       | 6-7-91   | —                                 | —                        | pump                |
|       | 10-15-91 | —                                 | —                        | pump                |
|       | 3-18-92  | —                                 | none in discharge        | pump                |
| RW7-2 | 8-28-90  | —                                 | trace                    | bailed              |
|       | 6-7-91   | —                                 | ND                       | —                   |
|       | 3-18-92  | —                                 | ND                       | —                   |
| RW7-3 | 8-28-90  | —                                 | trace                    | bailed              |
|       | 6-7-91   | —                                 | trace                    | —                   |
|       | 10-28-91 | —                                 | ND                       | —                   |
|       | 3-18-92  | —                                 | ND                       | —                   |
| RW7-4 | 8-28-90  | —                                 | ≈ 4                      | bailed              |
|       | 6-7-91   | 16.01                             | 2.50                     | —                   |
|       | 8-6-91   | 17.28                             | 0.73                     | —                   |
|       | 10-15-91 | 17.56                             | 0.95                     | —                   |
|       | 10-21-91 | 17.76                             | 0.75                     | after DNAPL removal |
|       | 3-18-92  | 18.67                             | 0.33                     | —                   |
|       |          |                                   |                          |                     |
| RW7-5 | 8-28-90  | —                                 | 4 - 5                    | bailed              |
|       | 9-25-91  | 15.18                             | 4.17                     | Recovery system     |
|       | 9-26-91  | 15.45                             | 3.90                     | pilot test on RW7-5 |
|       | 9-27-91  | 15.62                             | 3.73                     | pump                |
|       | 9-28-91  | 15.78                             | 3.57                     | pump                |
|       | 10-3-91  | 15.95                             | 3.40                     | pump                |
|       | 10-10-91 | 16.00                             | 3.35                     | pump                |
|       | 3-18-92  | —                                 | none in discharge        | pump                |
| MW-6  | 6-7-91   | 18.36                             | 0.20                     | —                   |
|       | 8-6-91   | 17.36                             | 1.20                     | —                   |
|       | 10-15-91 | 17.33                             | 1.23                     | —                   |
|       | 10-21-91 | 18.18                             | 0.38                     | after DNAPL removal |
|       | 3-18-92  | 17.16                             | 1.44                     | —                   |
| MW-8  | 6-7-91   | 16.74                             | 0.50                     | —                   |
|       | 8-6-91   | 15.66                             | 1.58                     | —                   |
|       | 10-15-91 | 15.68                             | 1.56                     | —                   |
|       | 10-21-91 | 16.75                             | 0.49                     | after DNAPL removal |
|       | 3-18-92  | 16.55                             | 0.65                     | —                   |
| CW-15 | 8-22-90  | —                                 | trace                    | —                   |
|       | 6-7-91   | —                                 | ND                       | —                   |
|       | 10-21-91 | —                                 | ND                       | —                   |
|       | 3-18-92  | —                                 | ND                       | —                   |
| CW-16 | 8-22-90  | —                                 | trace                    | —                   |
|       | 6-7-91   | —                                 | ND                       | —                   |
|       | 10-21-91 | —                                 | ND                       | —                   |
|       | 3-18-92  | —                                 | ND                       | —                   |

## E. LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

### LNAPL Recovery System

The LNAPL recovery system was not operated during April 1992. No LNAPLs were observed in RW15-1, RW15-2, RW-1, and P-2. Only a trace of LNAPLs were observed in P-1 and 0.16 feet was measured in CW-7. Monitoring well MW-18 revealed a trace of LNAPL and MW-23 revealed 0.02 feet of LNAPL. LNAPL recovery from underneath the Boiler Room will be delayed until the ground-water depression pumps that are part of the LNAPL recovery system can be turned on.

### LNAPL Monitoring Program

A LNAPL Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent LNAPL and ground-water measurement data from a representative set of LNAPL recovery wells and monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements. The following Table 3 summarizes LNAPL thicknesses in wells which have shown the presence of measurable LNAPL. To date, approximately 182 gallons of LNAPL have been recovered from wells where LNAPL accumulates to measurable thickness.

**TABLE 3**  
**LNAPL THICKNESS SUMMARY**

| WELL  | DATE     | LNAPL THICKNESS<br>(ft.) | COMMENT |
|-------|----------|--------------------------|---------|
| MW-16 | 6-18-91  | ND                       | ---     |
|       | 7-26-91  | ND                       | ---     |
|       | 4-9-92   | ND                       | ---     |
| MW-18 | 6-18-91  | ND                       | ---     |
|       | 7-26-91  | ND                       | ---     |
|       | 4-9-92   | trace                    | ---     |
| MW-23 | 11-10-90 | sheen                    | ---     |
|       | 6-18-91  | trace                    | ---     |
|       | 7-26-91  | ND                       | ---     |
|       | 4-8-92   | 0.02                     | ---     |

**F. STATUS OF PERMITS**

Air Control Apparatus

Permit #01903837 expires on June 30, 1992.

SIU Permit

The final permit is anticipated to be issued in June 1992.

PVSC Discharge Permit

An application for a discharge permit separate from the existing Fine Organics discharge permit is being processed. Enclosed in Appendix C is a copy of the Application for Sewer Connection Permit to the PVSC.

NJPDES Discharge to Ground Water Permit

No activity occurred during this time period.

NJPDES Discharge to Surface Water Permit

No activity occurred during this time period.

**G. ALTERNATE DISCHARGE SOURCE**

An application for a discharge permit to the PVSC as made as described above.

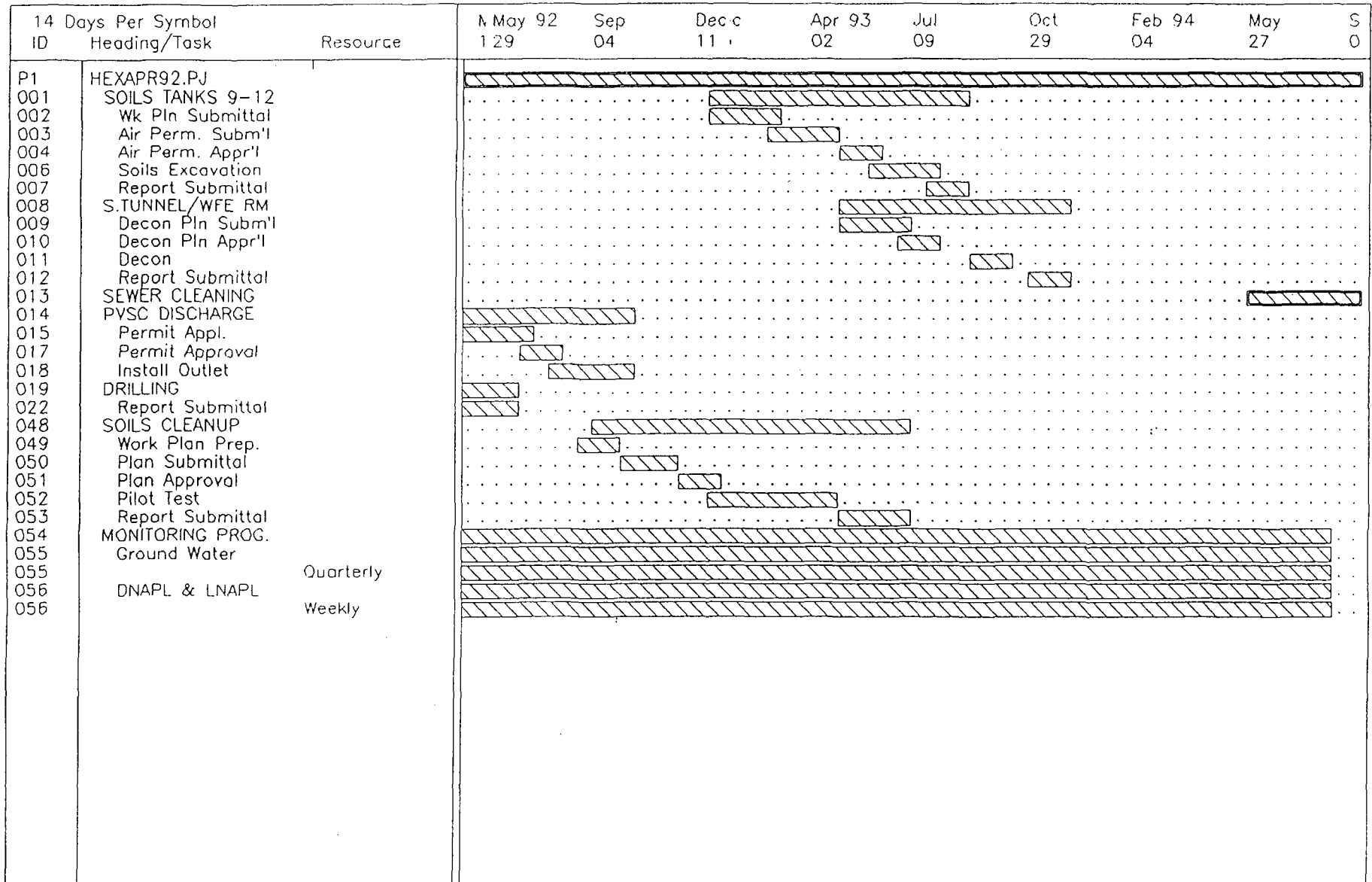
**H. SCHEDULE UPDATE**

The attached schedule (Table 4) summarizes the projected timetable for the current period.

**TABLE 4**  
**UPDATED SCHEDULE OF ACTIVITIES**

Project: HEXAPR92.PJ  
05-18-92

Task Gantt



Critical  
 Non Critical  
 Assigned  
 Unassigned  
 Float/Delay  
 Finish Delay  
 Free Float  
 Planned  
 Actual  
@ Milestone

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TABLE 3 cont.

| WELL   | DATE     | LNAPL THICKNESS<br>(ft.) | COMMENT            |
|--------|----------|--------------------------|--------------------|
| MW-25  | 9-20-90  | ND                       | —                  |
|        | 6-18-91  | ND                       | —                  |
|        | 7-26-91  | ND                       | —                  |
|        | 4-8-92   | ND                       | —                  |
| MW-29  | 2-12-91  | ND                       | —                  |
|        | 6-18-91  | sheen                    | —                  |
|        | 7-26-91  | ND                       | —                  |
|        | 4-8-92   | ND                       | —                  |
| MW-30  | 2-12-91  | sheen                    | —                  |
|        | 6-18-91  | ND                       | —                  |
|        | 7-26-91  | ND                       | —                  |
|        | 4-8-92   | ND                       | —                  |
| MW-31  | 2-12-91  | ND                       | —                  |
|        | 6-18-91  | ND                       | —                  |
|        | 7-26-91  | ND                       | —                  |
|        | 4-8-92   | ND                       | —                  |
| CW-7   | 6-18-91  | 3.15                     | bailed             |
|        | 8-29-91  | 2.14                     | —                  |
|        | 9-17-91  | 1.89                     | removed by pumping |
|        | 3-18-92  | trace                    | —                  |
|        | 4-9-92   | 0.16                     | —                  |
| CW-8   | 8-29-91  | ND                       | —                  |
|        | 9-17-91  | ND                       | —                  |
|        | 4-9-92   | ND                       | —                  |
| RW15-1 | 10-3-90  | ND                       | —                  |
|        | 12-13-90 | ND                       | —                  |
|        | 8-29-91  | ND                       | —                  |
|        | 3-18-92  | ND                       | —                  |
| RW15-2 | 10-3-90  | ND                       | —                  |
|        | 12-13-90 | ND                       | —                  |
|        | 8-29-91  | ND                       | —                  |
|        | 3-18-92  | ND                       | —                  |
| RW1-1  | 10-3-90  | ND                       | —                  |
|        | 10-16-91 | ND                       | —                  |
|        | 3-18-92  | ND                       | —                  |
| P-1    | 10-3-90  | 0.10                     | —                  |
|        | 12-13-90 | 0.08                     | —                  |
|        | 8-29-91  | 0.38                     | removed by bailing |
|        | 3-18-92  | trace                    | —                  |
| P-2    | 10-3-90  | ND                       | —                  |
|        | 12-13-90 | ND                       | —                  |
|        | 8-29-91  | ND                       | —                  |
|        | 3-18-92  | ND                       | —                  |

**APPENDIX A**

**Soil Boring Logs  
and  
Well Completion Diagrams**

92RB2034.T1

**884130015**

# HERITAGE REMEDIATION/ENGINEERING, INC

5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

HYDROGEOLOGIST H WILBARGER  
DRILLING COMPANY TES, INC  
DATE OF COMPLETION 4-21-92

CLIENT HEXCEL  
JOB NUMBER 61064  
LOCATION LODI, NJ

## BORING 113

| BLOW<br>COUNTS | % RECOVERY<br>SAMPLED INTERVAL | ><br>W<br>J<br>W | I<br>F<br>W<br>O | 0<br>Z<br>H<br>O<br>0<br>0<br>H<br>W<br>0 | LITHOLOGY | LITHOLOGIC DESCRIPTION   |
|----------------|--------------------------------|------------------|------------------|---|-----------|--|
| 3-5-5          |                                | 0                | 0                | 431                                       |           | 0 0 to -2 0 SILTY SAND med grained, orange, dry (001)                  |
| 4-4-8          |                                | 1                | 1                | 149*                                      |           | -2 0 to -4 0 SAND med grained, orange (002)                            |
|                |                                | 2                | 2                |   |           | -4 0 to -5 0 SAND med grained, orange-brown, moist to wet (003)        |
| 5-7-8          |                                | 3                | 3                | 2089*                                     |           | -5 0 to -6 0 SANDY SILT fine grained, brown-gray, saturated (003 CONT) |
| 4-6-8          |                                | 4                | 4                | 293                                       |           | -6 0 to -8 0 SILTY CLAY Gray, saturated, sulfur odor (004)             |
|                |                                | 5                | 5                | 690                                       |           |  |
|                |                                | 6                | 6                |   |           |  |
|                |                                | 7                | 7                |   |           |  |
|                |                                | 8                | 8                |   |           |  |
|                |                                | 9                | 9                |   |           |  |
|                |                                | 10               | 10               |   |           |  |
|                |                                | 11               | 11               |   |           |  |
|                |                                | 12               | 12               |   |           |  |
|                |                                | 13               | 13               |   |           |  |
|                |                                | 14               | 14               |   |           |  |
|                |                                | 15               | 15               |   |           |  |
|                |                                | 16               | 16               |   |           |  |
|                |                                | 17               | 17               |   |           |  |
|                |                                | 18               | 18               |   |           |  |
|                |                                | 19               | 19               |   |           |  |
|                |                                | 20               | 20               |   |           |  |

\*Denotes Sample Submitted for analysis

884130016



# HERITAGE REMEDIATION/ENGINEERING, INC

5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

HYDROGEOLOGIST H WILBARGER  
DRILLING COMPANY TES, INC.  
DATE OF COMPLETION 4-21-92

CLIENT HEXCEL  
JOB NUMBER 61064  
LOCATION LODI, NJ

## BORING 508

| BLOW COUNTS | % RECOVERY SAMPLED INTERVAL | > W J W | I T A W O | 0 Z H O 06 HW 00 | LITHOLOGY | LITHOLOGIC DESCRIPTION  |
|-------------|-----------------------------|---------|-----------|------------------|-----------|---|
|             |                             | 0       | 0         | 360              |           | 0 0 to -2 0 SAND AND GRAVEL coarse, Brown (001)   |
|             | 25                          | 1       | 1         |                  |           |   |
| -10-6-9     |                             | 2       | 2         |                  |           | -2 0 to -4 0 SAND some small gravel, coarse, reddish-brown, slight odor (002)   |
|             | 25                          | 3       | 3         | 2661             |           |   |
| 0-8-12-9    |                             | 4       | 4         |                  |           | -4 0 to -6 0 SAND WITH PEBBLES rounded pebbles, saturated, strong odor (003)  |
|             | 50                          | 5       | 5         | 2580             |           |   |
| -7-10-9     |                             | 6       | 6         |                  |           | -6 0 to -8 0 SILTY CLAY Gray, saturated, strong odor, more silt than usual. Showed oil-like substance in jar (004A and 004B)* |
|             | 60                          | 7       | 7         | 3195             |           |   |
|             |                             | 8       | 8         | 314              |           |   |
|             |                             | 9       | 9         |                  |           |   |
|             |                             | 10      | 10        |                  |           |   |
|             |                             | 11      | 11        |                  |           |   |
|             |                             | 12      | 12        |                  |           |   |
|             |                             | 13      | 13        |                  |           |   |
|             |                             | 14      | 14        |                  |           |   |
|             |                             | 15      | 15        |                  |           |   |
|             |                             | 16      | 16        |                  |           |   |
|             |                             | 17      | 17        |                  |           |   |
|             |                             | 18      | 18        |                  |           |   |
|             |                             | 19      | 19        |                  |           |   |
|             |                             | 20      | 20        |                  |           |   |

\*Denotes sample submitted for analysis

## HERITAGE REMEDIATION/ENGINEERING, INC

5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

HYDROGEOLOGIST H. WILBARGER

CLIENT HEXCEL

DRILLING COMPANY TES, INC

JOB NUMBER 61064

DATE OF COMPLETION 4-21-92

LOCATION LODI, NJ

## BORING 613

| BLOW COUNTS | % RECOVERY SAMPLED INTERVAL | > W J W | I F A W O | Ø Z H O DE HW LL | LITHOLOGY | LITHOLOGIC DESCRIPTION  |
|-------------|-----------------------------|---------|-----------|------------------|-----------|---|
| 3-15-12-7   | 40                          | 0-1     | 0-1       | 44 7             |           | 0 0 to -2 0 SAND v fine to med, Brown, some gravel, black silt, slight odor (001) |
| 1-16-12-8   | 45                          | 2-3     | 2-3       | 54*              |           | -2 0 to -4 0 SAND coarse, Brown-black, moist, piece of brick (002)                |
| 1-4-4-6     | 20                          | 4-5     | 4-5       | 163              |           | -4 0 to -6 0 SAND Black, moist, (fill?) (003)                                     |
| 1-9-7-7     | 48                          | 6-7     | 6-7       | 2404             |           | -6 0 to -8 0 SAND (fill) Black saturated, strong odor (DNAPL?) (004)              |
| 1-5-9-5     | 50                          | 8-9     | 8-9       | 409              |           | -8 0 to -10 0 SAND AND GRAVEL coarse, Black, saturated, strong odor (005)         |
| 1-3-2-2     | 48                          | 10-11   | 10-11     | 597              |           | -10 0 to -12 0 SILTY SAND clayey Black, saturated, strong odor (006)              |
| 1-1-2-2     | 0                           | 12-13   | 12-13     |                  |           | -12 0 to -14 0 no recovery  |
| 1-4-2       | 40                          | 14-15   | 14-15     | 903              |           | -14 0 to -16 0 SAND med, Brown-gray, saturated (007)                              |
| 1-5-3-2     |                             | 16-17   | 16-17     |                  |           | -16 0 to -17 0 GRAVEL some clay (no sample)                                       |
| 12-11-5-5   |                             | 18-19   | 18-19     | 2865             |           | -17 0 to -19 0 SILTY CLAY reddish-gray, saturated, trace DNAPL (009)              |
|             |                             | 100     | 19        |                  |           | * Denotes sample submitted for analysis   |
|             |                             |         | 20        |                  |           |   |

884130018

# HERITAGE REMEDIATION/ENGINEERING, INC

5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

HYDROGEOLOGIST H WILBARGER  
DRILLING COMPANY TES, INC  
DATE OF COMPLETION 4-21-92

CLIENT HEXCEL  
JOB NUMBER 61064  
LOCATION LODI, NJ

## BORING 507 (MW-32)

| BLOW COUNTS | % RECOVERY SAMPLED INTERVAL | W<br>J<br>W | 1<br>F<br>W<br>O | 0<br>Z<br>H<br>O<br>0<br>0<br>H<br>W<br>0<br>0 | LITHOLOGY | LITHOLOGIC DESCRIPTION   |
|-------------|-----------------------------|-------------|------------------|--|-----------|--|
| 7-4-3       | 60                          | 0           | 0                | 28.9   |           | 0.0 to -2.0 SILTY SAND orange-brown, dry to moist, no odor (001) |
| 13-23-40    | 75                          | 2           | 2                | 0.3  |           | -2.0 to -3.0 SILTY SAND WITH PEBBLES orange moist (002A)         |
| 32-26-18    | 90                          | 3           | 3                | 307  |           | -3.0 to -4.0 SAND AND GRAVEL some silt, dark red, dry (002)      |
| 10-10-8-7   | 60                          | 4           | 4                | 242  |           | -4.0 to -5.0 SAND AND GRAVEL orange sand, red gravel (003A)      |
|             |                             | 5           | 5                | 110  |           | -5.0 to -6.0 SAND Brown some gravel, moist to wet (003)          |
|             |                             | 6           | 6                | 735*   |           | -6.0 to -7.0 SAND AND GRAVEL stained black saturated, (004A)     |
|             |                             | 7           | 7                | 179  |           | -7.0 to -8.0 SILTY CLAY gray, saturated saturated (004)          |
|             |                             | 8           | 8                |  |           |  |
|             |                             | 9           | 9                |  |           |  |
|             |                             | 10          | 10               |  |           |  |
|             |                             | 11          | 11               |  |           |  |
|             |                             | 12          | 12               |  |           |  |
|             |                             | 13          | 13               |  |           |  |
|             |                             | 14          | 14               |  |           |  |
|             |                             | 15          | 15               |  |           |  |
|             |                             | 16          | 16               |  |           |  |
|             |                             | 17          | 17               |  |           |  |
|             |                             | 18          | 18               |  |           |  |
|             |                             | 19          | 19               |  |           |  |
|             |                             | 20          | 20               |  |           |  |

\*Denotes sample submitted for analysis

HERITAGE REMEDIATION/ENGINEERING, INC

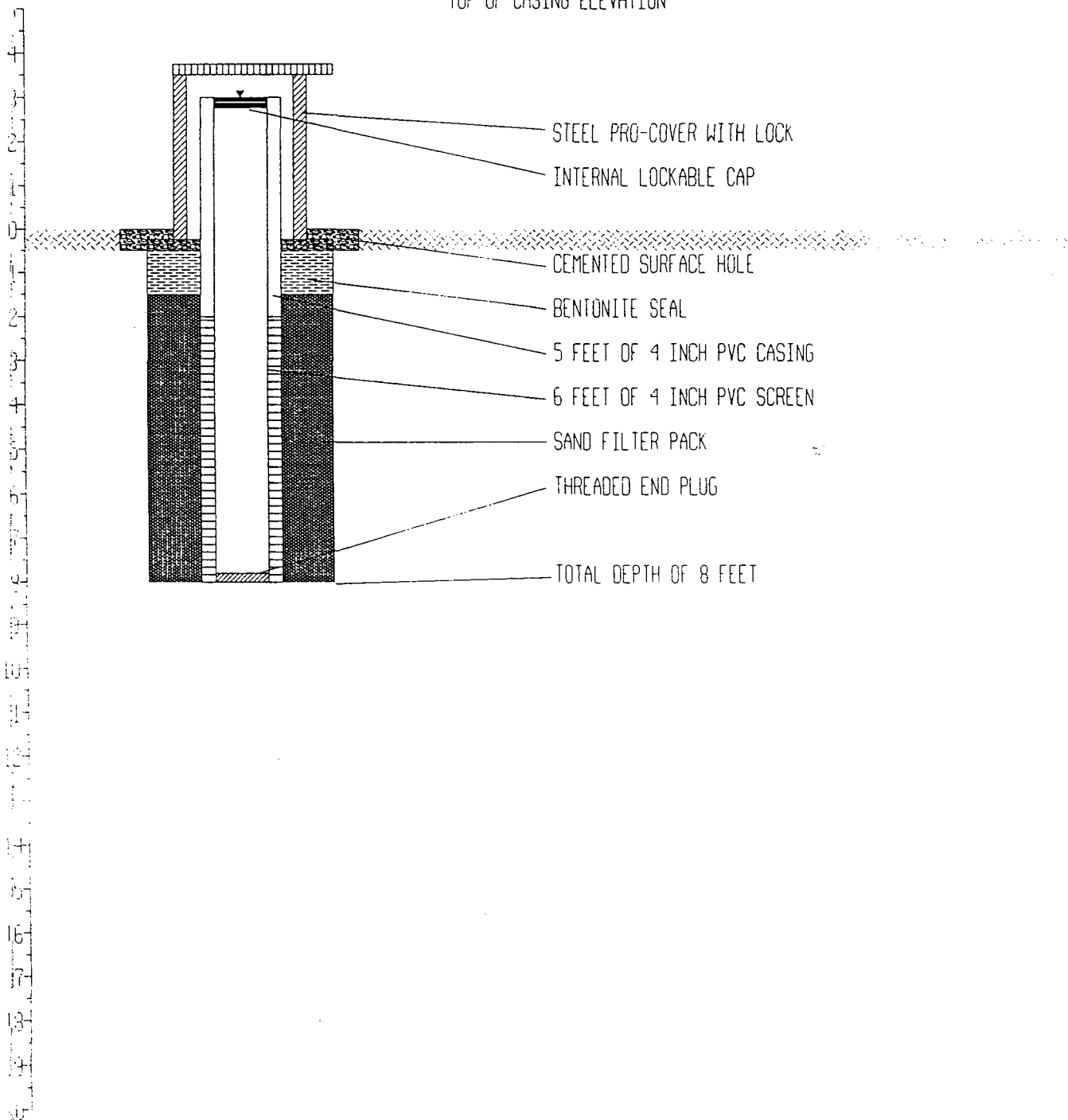
5656 OPPORTUNITY DRIVE

TOLEDO, OHIO 43612

|                            |                    |              |
|----------------------------|--------------------|--------------|
| HYDROGEOLOGIST H WILBARGER | CLIENT HEXCEL CORP | WELL * MW-32 |
| DRIILLING TES, INC         | JOB NUMBER 61064   | BORING * 507 |
| DATE-OF-COMPLETION 4-21-92 | LOCATION LOOI, NJ  | WATER LEVEL  |

MW-32

TOP OF CASING ELEVATION



884130020

# HERITAGE REMEDIATION/ENGINEERING, INC

5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

HYDROGEOLOGIST H WILBARGER  
DRILLING COMPANY TES, INC  
DATE OF COMPLETION 4-21-92

CLIENT HEXCEL  
JOB NUMBER 61064  
LOCATION LODI, NJ

MW-33

| BLOW COUNTS | % RECOVERY SAMPLED INTERVAL | > W J W | I F W D | Q Z H O OF HW LL | LITHOLOGY | LITHOLOGIC DESCRIPTION  |
|-------------|-----------------------------|---------|---------|------------------|-----------|---|
| 5-5-4       | 65                          | 1       | 1       | 0 0              |           | 0 0 to -2 0 FILL (ash), Black, dry, no odor (001)   |
| 4-4-6       | 75                          | 2       | 2       | 0 0              |           | -2 0 to -4 0 FILL (same as above) (002)   |
| 3-2-3       | 2                           | 3       | 3       | 0 0              |           | -4 0 to -6 0 FILL (same as above) (003)   |
| 5-2-1       | 60                          | 4       | 4       | 165              |           | -6 0 to -8 0 FILL ash, Black, wet to saturated, no odor (004)                             |
| 4-25-21-20  | 100                         | 5       | 5       | 0 0*             |           | -8 0 to -9 0 SILTY CLAY Gray, to 1 inch gray silt, saturated (005)                        |
| 19-21-32    | 100                         | 6       | 6       | 0 0              |           | -9 0 to -10 0 SAND med, gray, saturated (006)   |
| 16-11-3     | 90                          | 7       | 7       | 0 0              |           | -10 0 to -12 0 SAND med, gray, saturated, no odor (006)                                   |
| 8-3-7-9     | 75                          | 8       | 8       | 0 0              |           | -12 0 to -14 0 SANDY SILT WITH FIBRILS red-brown, saturated 2 inches of orange clay (007) |
|             |                             | 9       | 9       | 0 0*             |           | -14 0 to -16 0 CLAY Brown, saturated, no odor (008)                                       |
|             |                             | 10      | 10      |                  |           |   |
|             |                             | 11      | 11      |                  |           |   |
|             |                             | 12      | 12      |                  |           |   |
|             |                             | 13      | 13      |                  |           |   |
|             |                             | 14      | 14      |                  |           |   |
|             |                             | 15      | 15      |                  |           |   |
|             |                             | 16      | 16      |                  |           |   |
|             |                             | 17      | 17      |                  |           |   |
|             |                             | 18      | 18      |                  |           |   |
|             |                             | 19      | 19      |                  |           |   |
|             |                             | 20      | 20      |                  |           |   |

\* Denotes sample submitted for analysis

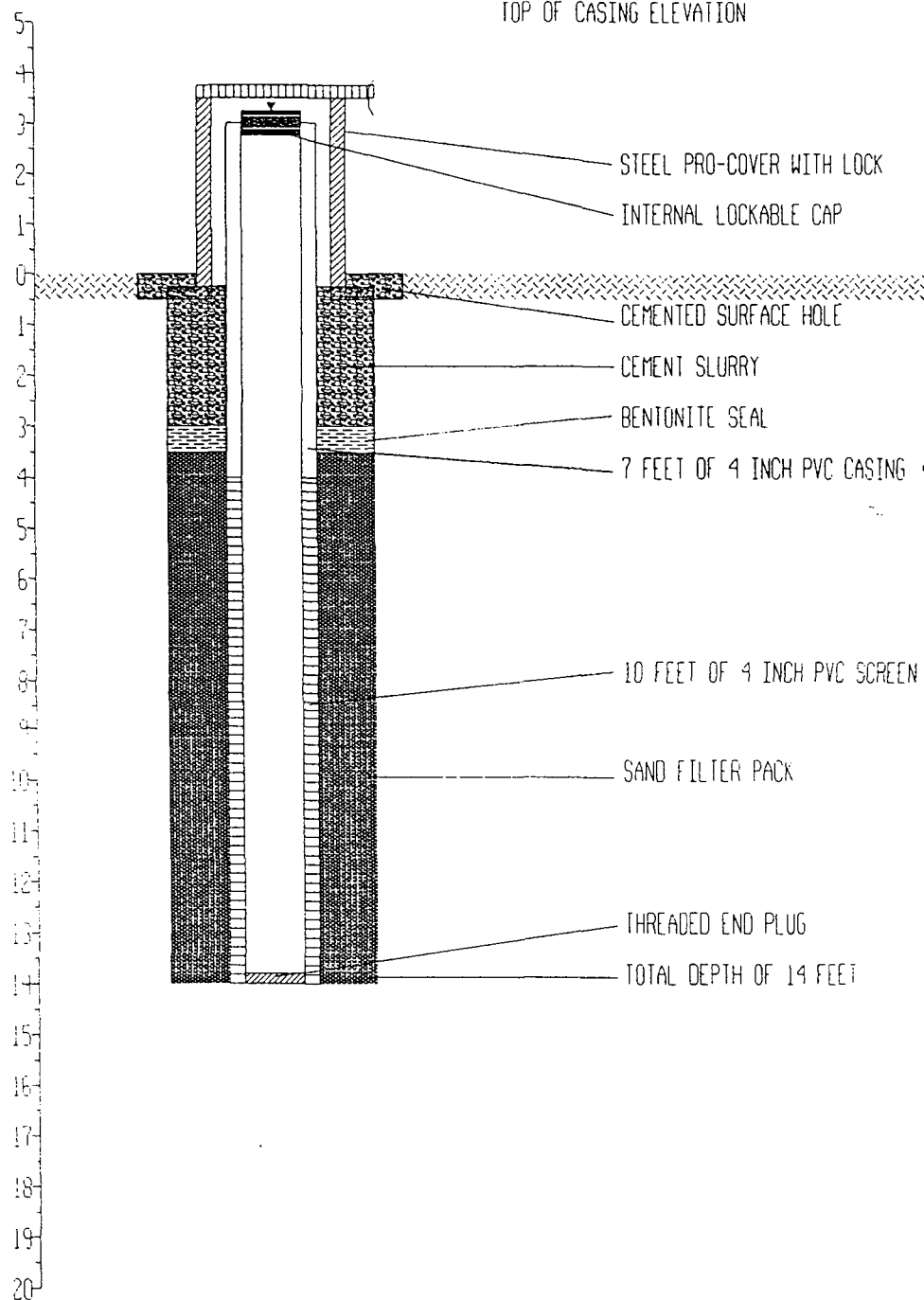
884130021

HERITAGE REMEDIATION/ENGINEERING, INC  
5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

|                            |                    |                |
|----------------------------|--------------------|----------------|
| HYDROGEOLOGIST H WILBARGER | CLIENT HEXCEL CORP | WELL * MW-33   |
| DRILLING TES, INC          | JOB NUMBER 61064   | BORING * MW-33 |
| DATE-OF-COMPLETION 4-21-92 | LOCATION LODI, NJ  | WATER LEVEL    |

MW-33

TOP OF CASING ELEVATION



884130022

**APPENDIX B**  
**Letter to Mr. Pranzo**

92RB2034.T1

**884130023**



5656 Opportunity Drive  
Toledo, OH 43612  
Phone: 419/478-4396  
FAX: 419/478-4560

March 24, 1992

Giuseppe Pranzo  
311 LaSalle Avenue  
Hasbrook Heights NJ 07604

Dear Mr. Pranzo:

The State of New Jersey has mandated that we conduct a ground-water investigation of the Lodi area. This will include the installation of a number of monitoring wells along Main Street. We would like to place one or two wells on your property located at 232 N. Main Street, and have access to the well or wells periodically to obtain ground-water samples.

It is anticipated that each monitoring well will have to be installed approximately ten (10) feet from the shoulder of Main Street on your property. The exact location of the wells will be determined by overhead lines, permanent aboveground structures and your concerns. The physical characteristics of each well will be as follows:

Each monitoring well will be installed with the use of a mobile drill rig. The drill cuttings (soils) generated from the drilling operations will be containerized and removed from the property.

Each monitoring well will consist of a 4 inch diameter pipe, cut off several inches from the ground surface. The well head will be concealed and protected with a lockable well cap mounted flush with the ground surface. When completed, each monitoring well will look much like a water valve cover. Each well installation will take approximately one (1) day to complete, with the property restoration immediately following. In most cases, the installation and site restoration will be accomplished in the same day. The wells will be installed during a normal work day and during business hours. Attached is a drawing showing the physical appearance of the completed well.

Please notify the current tenants of your property or contact us so that they can be informed of our activities.

92HW1020.T1





In an effort to avoid any potential misunderstandings or conflicts, we ask that you review the following list of warranties and indicate your authorization for Heritage Remediation/Engineering, Inc. to proceed with the installation of the well by signing in the space provided below.

- I am the legal owner of the property located at 232 N. Main Street in Lodi, NJ;
- I have read and I understand the work to be accomplished on my property; and
- I understand that Heritage Remediation/Engineering, Inc. (HR/E) will restore the site such that the only evidence of our activity is the surface well cover.
- I hereby give Heritage Remediation/Engineering, Inc. and/or its' subcontractors Right of Entry to my property to complete the above described monitor well installation and site restoration.

---

Authorized Signature

In addition, please provide us with a day time telephone number so that we may inform you prior to our activities.

---

Day Time Telephone Number

In order to maintain the States' schedule, we must receive your response by April 6, 1992. Please sign and return one copy of this letter to us as soon as possible using the enclosed self addressed stamped envelope and retain one copy for your records. If you have any questions or concerns concerning this matter, please do not hesitate to call me at 1-800-338-4396.

Sincerely,  
Heritage Remediation/Engineering, Inc.

Robert R. Beckwith, C.P.G.  
Senior Hydrogeologist

Encl.

92HW1020.T1

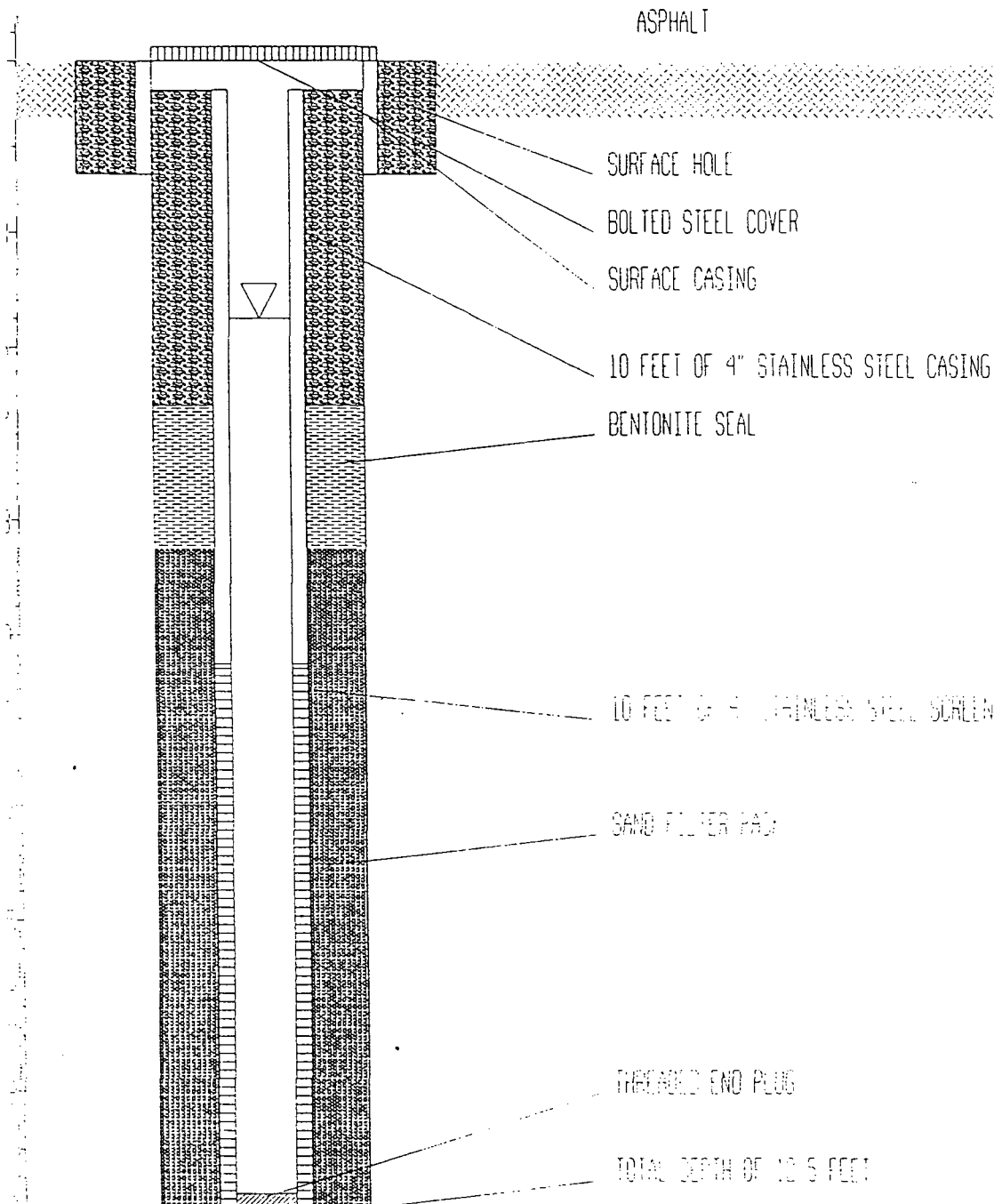
884130025

HERITAGE REMEDIATION/ENGINEERING, INC  
5656 OPPORTUNITY DRIVE  
TOLEDO, OHIO 43612

|                            |                           |             |
|----------------------------|---------------------------|-------------|
| HYDROGEOLOGIST H WILBARGER | CLIENT                    | WELL *      |
| DRILLING TES, INC          | JOB NUMBER 60027          | BORING *    |
| DATE OF COMPLETION         | LOCATION LODI, NEW JERSEY | WATER LEVEL |

TOP OF CASING ELEVATION

CW-1



884130026

**APPENDIX C**  
**Application for Sewer Connection Permit**

92RB2034.T1

**884130027**

PORZIO, BROMBERG & NEWMAN

A PROFESSIONAL CORPORATION

COUNSELLORS AT LAW

163 MADISON AVENUE

MORRISTOWN, NJ 07962-1997

201-538-4006

PRACTICE LIMITED TO LITIGATION AND ENVIRONMENTAL LAW

FAX 201-538-5146

TELEX 130-509 (TPBN-LAW-UD)

655 THIRD AVENUE (SUITE 900)

NEW YORK, NY 10017-5617

212-986-0600

FAX 212-986-6491

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LISA MURTHA BROMBERG  
MYRON J. BROMBERG  
D. JEFFREY CAMPBELL  
THOMAS R. CHESSON  
ROY ALAN COHEN  
ALEXANDER J. DRAGO  
LAUREN E. HANDLER  
EDWARD A. HOGAN  
ANITA HOTCHKISS  
KENNETH R. MEYER  
JOHN M. NEWMAN

RALPH PORZIO

RETIRED

CHARLES E. ERWAY, III  
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CHARLES J. STOLA  
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MORNA L. SWEENEY  
JEANNE M. SZAFRANOWSKI\*  
JOSEPH P. THOMAS\*  
RAYMOND G. WAUGH, JR.  
STEPHEN L. WILLIS

\* N.J. BAR ONLY  
N.J. & N.Y. BARS

May 1, 1992

VIA FEDERAL EXPRESS

Mr. Frank D'Ascensio  
Passaic Valley Sewer Commission  
600 Wilson Avenue  
Newark, NJ 07105

Re: Hexcel Corporation  
205 South Main St.  
Lodi, Bergen County, New Jersey  
Passaic Valley Sewerage Commissioners  
Application for Sewer Connection Permit  
ECRA Case No. 86009  
Our File No. 03597.17140

Dear Frank:

Enclosed herewith please find an application for a sewer connection permit in regard to the above-referenced facility. This permit is being submitted pursuant to our agreements and conversations following the comments of the owner of the property Fine Organics to the draft NJPDES permit. You will recall that at that time it was agreed that Hexcel Corporation would apply for its own PVSC permit.

This application is being submitted for the discharge of treated groundwater. The discharge of the treated groundwater to the PVSC was discussed with you on March 18, 1992 and in our letter to you of April 1, 1992. More specifically, the application is being submitted for the discharge of contaminated groundwater as well as "basement seepage". This treatment system has been

884130028

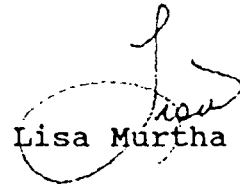
Mr. Frank D'Ascensio  
May 1, 1992  
Page 2

PORZIO, BROMBERG & NEWMAN

approved by the NJDEPE as the appropriate remediation for the groundwater at this site. It is anticipated that the groundwater will be extracted from the upper and lower aquifers and treated on-site for removal of contaminants. The treatment system itself is described in the enclosed application.

Finally, you will recall that we have already submitted to you a report entitled "Alternative Discharge of Groundwater Pretreatment System: Preliminary Feasibility Study for Former Hexcel Corporation Site". This report identified the discharge to the PVSC as the only viable alternative for the discharge of the water. Based on that fact, this application is being submitted. Please advise if any further information is necessary.

Very truly yours,



Lisa Murtha Bromberg

LMB/cad/L1204

Enc.

cc: Mr. A. William Nosil  
Mr. Joseph Ritchey  
Ms. Renee Van de Griend  
(All With Enclosure)

884130029

SECTION A

1. Company Name: Hexcel Corporation
2. Permit number if applicable, NA
3. Location: 205 Main Street  
Lodi, NJ Zip Code: 07644-0687
4. Mailing Address: 11555 Dublin Blvd.  
Dublin, CA Zip Code: 94566
5. Person to contact concerning information provided in this application:  
Name of Contact Official: A. William Nosil  
Title: Corporate Environmental Engineering Manager Phone No. (510) 828-4200  
extension 4482  
Address: 11555 Dublin Blvd, Dublin CA Zip Code 94566
6. Number of Employees - Full Time: NA Part Time: NA  
Number of Work Days Per Year: NA Facility is operated by  
Number of Shifts Per Day: NA Fine Organics Corporation;  
Hexcel only operates a  
ground water treatment system  
at the facility.
7. If property is owned indicate block and lot numbers:  
(NA - Not owned by Hexcel)  
Assessed Value: 19
8. If property is rented indicate name and address of owner:  
Fine Organics Corporation  
205 Main Street Lodi, NJ, 07644-0687  
Total square feet rented: 10,000
9. List NJPDES Permit number if applicable, NJ0081507 (pending) and  
name of receiving body of water entered NA

# SECTION B

## WATER DATA

10. Water Source: (Circle all appropriate answers) .

|           |        |                     |        |
|-----------|--------|---------------------|--------|
| Purchased | Y -(N) |                     |        |
| Well      | (Y)- N | If Y, is it metered | Y -(N) |
| River     | Y -(N) | If Y, is it metered | Y - N  |

11. Name of purchased water supplier: NA

List all Acct #s: \_\_\_\_\_

12. Water Received: From Mo. \_\_\_\_\_ Yr. \_\_\_\_\_ (Estimated future annual volumes) Through Mo. \_\_\_\_\_ Yr. \_\_\_\_\_

(\* Next to a figure means it is estimated).

|          | <u>PURCHASED</u> | <u>WELL</u> | <u>RIVER</u> | <u>TOTAL</u> |
|----------|------------------|-------------|--------------|--------------|
| 1st Qtr. |                  | 657,000*    |              | 657,000 *    |
| 2nd Qtr. |                  | 657,000*    |              | 657,000 *    |
| 3rd Qtr. |                  | 657,000*    |              | 657,000 *    |
| 4th Qtr. |                  | 657,000*    |              | 657,000 *    |

**GRAND TOTAL** 2,628,000 \* gallons/year

Report in gallons .

13. Water Use and Disposition (\* Next to a figure means it is estimated).

|                          | Gallons<br>Sanitary/Combined<br>Sewer | Discharged<br>Stormsewer/<br>River/Ditch | Gallons<br>Used<br>Other |
|--------------------------|---------------------------------------|--|--------------------------|
| Sanitary Service Only    | 0                                     | 0  |                          |
| Process Waste Water      | 0                                     | 0  |                          |
| Cooling Water            | 0                                     | 0  |                          |
| Evaporation              |                                       |  | 0                        |
| Contained in the product |                                       |  | 0                        |
| Other (Describe)         |                                       |  | 0                        |
| Treated ground water     | 2,628,000 *                           | 0  | 0                        |

**GRAND TOTAL** 2,628,000 \*

SECTION B (CONTINUED)

14. Process wastewater which is discharged as above is metered as follows:

|                                |        |
|--------------------------------|--------|
| to the Separate Sanitary Sewer | (Y)- N |
| to the Combined Sewer          | Y -(N) |
| to a storm sewer               | Y -(N) |
| river or ditch                 | Y -(N) |

15. Waste Hauler Information: List all firms and/or independent contractors used to remove process waste or sludge from this facility.

| Contractor | Address  | icc# | Waste type handled |
|------------|--|------|--------------------|
| None       | (sludge not yet generated and contractor not yet selected. |      |                    |
|            |  |      |                    |
|            |  |      |                    |

SECTION C

OPERATIONAL CHARACTERISTICS

16. Discharge of Industrial Waste is continuous \_\_\_\_\_

or intermittent   X   each operating day.

If the discharge is intermittent, it occurs between the following hours: (6 hours/day; time will vary according to automatic operation of system)

17. Brief description of Manufacturing or other activity performed: \_\_\_\_\_

Extracted ground water is treated by chemical flocculation, oil/water separation, air stripping, filtration, and liquid-phase activated carbon

List SIC CODE #:   9999  

18. Principal Raw Materials used:   NA  

19. Principal Products or Services:   NA



SECTION C (CONTINUED)

20. Describe seasonal variations, if significant, giving dates, volumes, rates, hours, etc. Include variations in product lines which affect waste characteristics: \_\_\_\_\_

None

Does this facility shutdown for vacations? No If so, is it basically the same time each year \_\_\_\_\_. Provide dates usually shut down \_\_\_\_\_

SECTION D

MONITORING

21. Describe any pretreatment process or effluent monitoring system in use: .

Outlet (Outlet number not yet established)

Pretreatment: chemical flocculation, oil/water separation, air stripping, liquid-phase carbon adsorption;

Outlet ~~Effluent~~ monitoring: grab samples will be collected and analyzed for PCBs and volatile organic compounds. Frequency of monitoring not yet established.

Outlet \_\_\_\_\_

22. Sampling information:

| <u>Outlet</u>         | <u>Contains<br/>Hnd. Waste</u> | <u>Sampler Type</u> | <u>Refrigerated</u> |
|-----------------------|--------------------------------|---------------------|---------------------|
| (Not yet established) | No                             | Manual grab sample  | Yes                 |
|                       |                                |                     |                     |
|                       |                                |                     |                     |

SECTION D (CONTINUED)

23. Volume Information;

| <u>Outlet</u>                | <u>Daily Flow</u><br><u>(Gallons)</u> | <u>Metered</u><br><u>(Y - N)</u> | <u>Type</u>   | <u>Date</u>                              |
|------------------------------|---------------------------------------|----------------------------------|---|--|
| (number not yet established) | 7,200                                 | Y                                | totalizing<br>flow meter -<br>not continuous,<br>not resettable | N/A (estimated<br>future flow<br>volume) |

24. Frequency of calibration of each flow meter: calibrated by manufacturer prior to use;  
manufacturer claims no field calibration required.

25. Attach a plot plan of the property showing:

- (a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);
- (b) sample point(s); Monitoring or Pretreatment Equipment; Incoming meter(s); Well meter(s); Internal meter(s); Flowmeter(s).
- (c) details of the connection (s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

# SECTION E

## ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET NO. (number not yet established)

Treatment system not yet in operation; sample will be collected and analyzed following start-up

Report to the nearest unit: XX.  
except where indicated with (1)  
Example: 15 mg/l

Report to the nearest hundredth: 0.XX  
except where indicated  
Example: 0.36 mg/l

| Code         | Parameter                       | Value | Code     | Parameter                    | Value |
|--------------|---------------------------------|-------|----------|------------------------------|-------|
| 0200*        | Radioactivity (PL-1)            |       | 1097*    | Antimony (Sb)                |       |
| 0500         | Total Solids                    |       | 1002*    | Arsenic (As)                 |       |
| 0510         | Total Mineral Solids            |       | 1022*    | Boron (B)                    |       |
| 0530         | Total Suspended Solids          |       | 1027*    | Cadmium (Cd)                 |       |
| 0552         | Mineral Suspended Solids        |       | 1034*    | Chromium Total (Cr)          |       |
| 0555 (1)(3)  | Petroleum Hydrocarbons          |       | 1042*    | Copper (Cu)                  |       |
| 0310         | Biochemical Oxygen Demand (BOD) |       | 1045*    | Iron (Fe)                    |       |
| 0340         | Chemical Oxygen Demand (COD)    |       | 1051*    | Lead (Pb)                    |       |
| 0680         | Total Organic Carbon (TOC)      |       | 0720*(3) | Cyanide (CN)                 |       |
| 9000         | pH (standard unit range)        |       | 1900*    | Mercury (Report to 0.XXX)    |       |
| 0610 (1)     | Ammonia as N                    |       | 1067*    | Nickel (Ni)                  |       |
| 0550 (1)(3)  | Total Oil & Grease              |       | 1147*    | Selenium (Se)                |       |
| 0745* (1)    | Sulfide                         |       | 1077*    | Silver (Ag)                  |       |
| 0507* (1)    | Ortho Phosphates as P           |       | 1102*    | Tin (Sn)                     |       |
| 0625* (1)    | Kjeldahl N as N                 |       | 1092*    | Zinc (Zn)                    |       |
| 9998* (2)(3) | TTO (Report to 0.XXX)           |       | 2730     | Phenol                       |       |
|              |                                 |       | 4053*    | Pesticides (Report to 0.XXX) |       |
|              |                                 |       | 9999*(3) | TTVO (Report to 0.XXX)       |       |

### FOOTNOTES:

(1) Report results to the nearest tenth, i.e., 1.6 mg/L.

(\*) Analyze for this if reasonably expected to be present in the discharge unless otherwise exempted.

(2) See instructions.

(3) Grab sample required.

REVISED 1/87

REVISED 8/89

REVISED 7/90

SECTION E (CONTINUED)

(To be completed following start-up of treatment system and sample collection/analysis)

Samples collected by: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Samples analyzed by: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Products being manufactured when sample was collected: \_\_\_\_\_

\_\_\_\_\_

27. Who performs the analyses of the samples for User Charge? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

28. Is the Laboratory certified by NJDEP to conduct all the analyses? Y - N \_\_\_\_\_

29. Who performs the analyses of the samples for the Pretreatment Parameters?

\_\_\_\_\_

\_\_\_\_\_

(If monitoring has not commenced for Pretreatment, indicate Laboratory you plan to use. If unknown, so state): \_\_\_\_\_

\_\_\_\_\_

30. Is The Laboratory certified by NJDEP to conduct all the required Pretreatment analyses?

Y - N \_\_\_\_\_

31. Based upon knowledge of materials and processes used at this facility check the appropriate box that best describes the potential that a Priority Pollutant, listed on Tables 1, 2, & 3 is present in your discharge.

SECTION F

**PRETREATMENT**

32. Industrial Category: NA  
Subpart (s): \_\_\_\_\_
33. Compliance date(s): NA
34. Is facility in compliance? NA If not, and if compliance date has passed, explain actions being taken to get into compliance: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
35. Date Baseline Monitoring Report (BMR) submitted to PVSC: NA
36. Compliance schedule submitted? NA  
If yes is facility on schedule? \_\_\_\_\_ Explain if compliance date will not be met:  
\_\_\_\_\_  
\_\_\_\_\_
37. Does this facility come under the Resource Conservation and Recovery Act (RCRA)?  
NA (application is for treatment system discharge only, not entire facility)
38. Does this facility have a Spill Prevention Control and Countermeasures (SPCC) plan?  
If yes, describe: NA (application is for treatment system only, not entire facility)  
\_\_\_\_\_
39. Has this facility ever been cited by NJDEP or EPA for a violation of State or Federal Regulations for the nature of its wastewater discharge? Y - N N
40. Is this facility under an ECRA Clean-up? Yes If so, has a plan been approved by NJDEP: Yes  
Is there any plan to discharge groundwater? Yes  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATION\*:**

The information contained in this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of signing official: A William Nossel  
PRINT

TITLE: CORPORATE ENVIRONMENTAL ENGINEERING MANAGER - HEXCEL

4-21-92  
DATE

A William Nossel  
SIGNATURE

**\*APPLICATION MUST BE SIGNED BY ONE OF THE FOLLOWING:**

- a. Principal Officer of Corporation
- b. President or Owner of Company
- c. General Partner if a Partnership
- d. Plant Manager or Authorized Representative for

TABLE 1 EPA PRIORITY POLLUTANTS

## CHECK APPROPRIATE BOX

| NAME                              | A | B | C | D |                              | A | B | C | D |
|-----------------------------------|---|---|---|---|------------------------------|---|---|---|---|
| acenaphthene                      |   |   |   | X | 2,4 dimethylphenol           |   |   |   | X |
| acrolein                          |   |   |   | X | 2,4 dinitrotoluene           |   | X |   |   |
| acrylonitrile                     |   |   |   | X | 2,6 dinitrotoluene           |   | X |   |   |
| benzene                           |   | X |   |   | 1,2 diphenylhydrazine        |   |   |   | X |
| benzidine                         |   |   |   | X | ethylbenzene                 |   | X |   |   |
| carbon tetrachloride              |   | X |   |   | fluoranthene                 |   |   |   | X |
| (tetrachloromethane)              |   |   |   |   | 4-chlorophenyl phenyl ether  |   | X |   |   |
| chlorobenzene                     |   | X |   |   | 4-bromophenyl phenyl ether   |   |   |   | X |
| 1,2,4-trichlorobenzene            |   | X |   |   | bis(2-chloroisopropyl) ether |   | X |   |   |
| hexachlorobenzene                 |   |   |   | X | bis(2-chloroethoxy) methane  |   |   |   | X |
| 1,2 dichloroethane                |   | X |   |   | methylene chloride           |   | X |   |   |
| 1,1,1, trichloroethane            |   | X |   |   | (dichloromethane)            |   |   |   |   |
| hexachloroethane                  |   | X |   |   | methyl chloride              |   |   |   | X |
| 1,1, dichloroethane               |   | X |   |   | (chloromethane)              |   |   |   |   |
| 1,1,2 trichloroethane             |   | X |   |   | methyl bromide               |   |   |   | X |
| 1,1,2,2, tetrachloroethane        |   | X |   |   | (bromomethane)               |   |   |   |   |
| chloroethane                      |   | X |   |   | bromoform(tribromomethane)   |   |   |   | X |
| bis(chloromethyl) ether           |   |   |   | X | dichlorobromomethane         |   | X |   |   |
| bis(2 chloroethyl) ether          |   |   |   | X | trichlorofluoromethane       |   |   |   | X |
| 2-chloroethyl vinyl ether (mixed) |   |   |   | X | dichlorodifluoromethane      |   |   |   | X |
| 2-chloronaphthalene               |   |   |   | X | chlorodibromomethane         |   |   |   | X |
| 2,4,6, trichlorophenol            |   | X |   |   | hexachlorobutadiene          |   | X |   |   |
| parachlorometa cresol             |   |   |   | X | hexachlorocyclopentadiene    |   |   |   | X |
| chloroform (trichloromethane)     |   | X |   |   | isophorone                   |   | X |   |   |
| 2 chlorophenol                    |   | X |   |   | naphthalene                  |   | X |   |   |
| 1,2, dichlorobenzene              |   | X |   |   | nitrobenzene                 |   |   |   | X |
| 1,3, dichlorobenzene              |   | X |   |   | 2-nitrophenol                |   | X |   |   |
| 1,4, dichlorobenzene              |   | X |   |   | 4-nitrophenol                |   | X |   |   |
| 3,3, dichlorobenzidine            |   |   |   | X | 2,4-dinitrophenol            |   | X |   |   |
| 1,1, dichloroethylene             |   | X |   |   | 4,6 dinitro-o cresol         |   |   |   | X |
| 1,2, trans-dichloroethylene       |   | X |   |   | N-nitrosodimethylamine       |   |   |   | X |
| 2,4, dichlorophenol               |   | X |   |   | N-nitrosodiphenylamine       |   |   |   | X |
| 1,2, dichloropropane              |   |   |   | X | N-nitrosodi-n-propylamine    |   |   |   | X |
| 1,2 dichloropropylene             |   |   |   | X | pentachlorophenol            |   |   |   | X |
| (1,3 dichloropropene)             |   |   |   | X | phenol                       |   | X |   |   |

- A. - KNOWN TO BE PRESENT  
 B. SUSPECTED TO BE PRESENT  
 C. - KNOWN TO BE ABSENT  
 D. SUSPECTED TO BE ABSENT

TABLE 1 EPA PRIORITY POLLUTANTS (CONTINUED)

## CHECK APPROPRIATE BOX

| NAME                        | A | B | C | D |   | A | B | C | D |
|-----------------------------|---|---|---|---|---|---|---|---|---|
| bis(2-ethylhexyl) phthalate |   | X |   |   | endrin                                  |   |   |   | X |
| butylbenzylphthalate        |   |   |   | X | endrin aldehyde                         |   |   |   | X |
| di-n-butylphthalate         |   |   |   | X | heptachlor                              |   | X |   |   |
| di-n-octylphthalate         |   |   |   | X | heptachlor (epoxide)                    |   |   |   | X |
| diethylphthalate            |   | X |   |   | BHC Alpha                               |   |   |   | X |
| dimethylphthalate           |   | X |   |   | BHC Beta                                |   |   |   | X |
| benzo(a)anthracene          |   |   |   | X | BHC Gamma                               |   |   |   | X |
| benzo(a)pyrene              |   |   |   | X | BHC Delta                               |   |   |   | X |
| 3,4 benzo fluoranthene      |   |   |   | X | PCB-1242                                |   | X |   |   |
| benzo(k)fluoranthene        |   |   |   | X | PCB-1254                                |   |   |   | X |
| chrysene                    |   |   |   | X | PCB-1271                                |   |   |   | X |
| acenaphthylene              |   | X |   |   | PCB-1232                                |   |   |   | X |
| anthracene                  |   |   |   | X | PCB-1248                                |   | X |   |   |
| benzo(g,h)perylene          |   |   |   | X | PCB-1260                                |   |   |   | X |
| fluorene                    |   |   |   | X | PCB-1016                                |   |   |   | X |
| phenanthrene                |   | X |   |   | toxaphene                               |   |   |   | X |
| dibenzo(a,h)anthracene      |   |   |   | X | antimony (total)                        |   | X |   |   |
| indeno(1,2,3-c,d)pyrene     |   |   |   | X | arsenic (total)                         |   | X |   |   |
| pyrene                      |   | X |   |   | asbestos (fibrous)                      |   |   |   | X |
| tetrachloroethylene         |   | X |   |   | beryllium (total)                       |   | X |   |   |
| toluene                     |   | X |   |   | cadmium (total)                         |   | X |   |   |
| trichloroethylene           |   | X |   |   | chromium (total)                        |   | X |   |   |
| vinyl chloride              |   | X |   |   | copper (total)                          |   | X |   |   |
| aldrin                      |   | X |   |   | cyanide (total)                         |   | X |   |   |
| dieldrin                    |   |   |   | X | lead (total)                            |   | X |   |   |
| chlordane                   |   |   |   | X | mercury (total)                         |   | X |   |   |
| 1,4 DDT                     |   | X |   |   | nickel (total)                          |   | X |   |   |
| 1,4 DDE                     |   |   |   | X | selenium (total)                        |   |   |   | X |
| 1,4 DDD                     |   |   |   | X | silver (total)                          |   |   |   | X |
| endosulfan I                |   |   |   | X | thallium (total)                        |   |   |   | X |
| endosulfan II               |   |   |   | X | zinc (total)                            |   | X |   |   |
| endosulfan sulfate          |   |   |   | X | 2,3,7,8, tetrachlorodibenzo<br>p-dioxin |   |   |   | X |

1. KNOWN TO BE PRESENT  
 2. SUSPECTED TO BE PRESENT  
 3. KNOWN TO BE ABSENT  
 4. SUSPECTED TO BE ABSENT



TABLE 2 NJDEP EXPANDED PRIORITY POLLUTANTS

## CHECK APPROPRIATE BOX

| NAME                    | A | B | C | D |   | A | B | C | D |
|-------------------------|---|---|---|---|---|---|---|---|---|
| acrylamide              |   |   |   | X | n,n-dimethyl aniline                    |   |   |   | X |
| amitrole                |   |   |   | X | 3,3-dimethyl benzidine                  |   |   |   | X |
| amyl alcohol            |   |   |   | X | 1,1-dimethylhydrazine                   |   |   |   | X |
| aniline hydrochloride   |   |   |   | X | dioxane                                 |   |   |   | X |
| anisole                 |   |   |   | X | diphenylamine                           |   |   |   | X |
| auramine                |   |   |   | X | ethylenimine                            |   |   |   | X |
| benzotrifluoride        |   |   |   | X | hydrazine                               |   |   |   | X |
| benzylamine             |   |   |   | X | 4,4'-methylene bis<br>(2-chloroaniline) |   |   |   | X |
| o-chloroaniline         |   |   |   | X | 4,4'-methylenedianiline                 |   |   |   | X |
| m-chloroaniline         |   |   |   | X | methyl isobutyl ketone                  |   |   |   | X |
| p-chloroaniline         |   | X |   |   | alpha-naphthylamine                     |   |   |   | X |
| 1-chloro-2-nitrobenzene |   |   |   | X | beta-naphthylamine                      |   |   |   | X |
| 1-chloro-4-nitrobenzene |   |   |   | X | n-methylaniline                         |   |   |   | X |
| chloroprene             |   |   |   | X | 1,2-phenylenediamine                    |   |   |   | X |
| chrysoidine             |   |   |   | X | 1,3-phenylenediamine                    |   |   |   | X |
| cumene                  |   |   |   | X | 1,4-phenylenediamine                    |   |   |   | X |
| 2,3-dichloroaniline     |   |   |   | X | sudan I (solvent yellow 14)             |   |   |   | X |
| 2,4-dichloroaniline     |   |   |   | X | thiourea                                |   |   |   | X |
| 2,5-dichloroaniline     |   |   |   | X | toluene sulfonic acids                  |   |   |   | X |
| 2,6-dichloroaniline     |   |   |   | X | toluidines                              |   |   |   | X |
| 3,4-dichloroaniline     |   |   |   | X | xyldines                                |   |   |   | X |
| 3,5-dichloroaniline     |   |   |   | X |   |   |   |   |   |
| 1,3-dichloropropene     |   |   |   | X |   |   |   |   |   |
| 1,3-dimethoxybenzidine  |   |   |   | X |   |   |   |   |   |

- A. KNOWN TO BE PRESENT  
 B. SUSPECTED TO BE PRESENT  
 C. KNOWN TO BE ABSENT  
 D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES

## CHECK APPROPRIATE BOX

| NAME                        | A | B | C | D |   | A | B | C | D |
|-----------------------------|---|---|---|---|---|---|---|---|---|
| acetaldehyde                |   |   | X |   | isopropanolamine                                  |   |   |   | X |
| allyl alcohol               |   |   | X |   | keltane   |   |   |   | X |
| allyl chloride              |   |   | X |   | kepone  |   |   |   | X |
| amyl acetate                |   |   | X |   | malathion   |   |   |   | X |
| aniline                     |   |   | X |   | mercaptodimethur                                  |   |   |   | X |
| benzonitrile                |   |   | X |   | methoxychlor                                      |   |   |   | X |
| benzyl chloride             |   |   | X |   | methyl mercaptan                                  |   |   |   | X |
| butyl acetate               |   |   | X |   | methyl methacrylate                               |   |   |   | X |
| butylamine                  |   |   | X |   | methyl parathion                                  |   |   |   | X |
| captan                      |   |   | X |   | mevinphos   |   |   |   | X |
| carbaryl                    |   |   | X |   | mexacarbate                                       |   |   |   | X |
| carbofuran                  |   |   | X |   | monoethyl amine                                   |   |   |   | X |
| carbon disulfide            |   |   | X |   | monomethyl amine                                  |   |   |   | X |
| chlorpyrifos                |   |   | X |   | naled   |   |   |   | X |
| coumaphos                   |   |   | X |   | naphthenic acid                                   |   |   |   | X |
| cresol                      |   |   | X |   | nitrotoluene                                      |   |   |   | X |
| crotonaldehyde              |   |   | X |   | parathion   |   |   |   | X |
| cyclohexane                 |   |   | X |   | phenolsulfonate                                   |   |   |   | X |
| 2,4-D (2,4-dichlorophenoxy) |   |   | X |   | phosgene  |   |   |   | X |
| acetic acid)                |   |   |   |   | propargite  |   |   |   | X |
| diazinon                    |   |   | X |   | propylene oxide                                   |   |   |   | X |
| dicamba                     |   |   | X |   | pyrethrins  |   |   |   | X |
| dichlobenil                 |   |   | X |   | quinoline   |   |   |   | X |
| dichlone                    |   |   | X |   | resorcinol  |   |   |   | X |
| 2,2-dichloropropionic acid  |   |   | X |   | strontium   |   |   |   | X |
| dichlorvos                  |   |   | X |   | strychnine  |   |   |   | X |
| diethyl amine               |   |   | X |   | styrene   |   | X |   |   |
| dimethyl amine              |   |   | X |   | 2,4,5-T (2,4,5-trichloro-<br>phenoxy acetic acid) |   |   |   | X |
| dinitrobenzene              |   |   | X |   | TDE (tetrachloro-<br>diphenylethane)              |   |   |   | X |
| diquat                      |   |   | X |   | 2,4,5-TP 2-(2,4,5-<br>trichlorophenoxy)           |   |   |   | X |
|                             |   |   |   |   | propanoic acid                                    |   |   |   |   |
| disulfoton                  |   |   | X |   | trichlorofon                                      |   |   |   | X |
| diuron                      |   |   | X |   | triethylamine                                     |   |   |   | X |
| epichlorohydrin             |   |   | X |   | trimethylamine                                    |   |   |   | X |

- A. KNOWN TO BE PRESENT  
 B. SUSPECTED TO BE PRESENT  
 C. KNOWN TO BE ABSENT  
 D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES (CONTINUED)

CHECK APPROPRIATE BOX

| NAME               | A | B | C | D |               | A | B | C |
|--------------------|---|---|---|---|---------------|---|---|---|
| ethanolamine       |   |   |   | X | uranium       |   |   |   |
| ethion             |   |   |   | X | vanadium      |   |   |   |
| ethylene diamine   |   |   |   | X | vinyl acetate |   |   |   |
| ethylene dibromide |   |   |   | X | xylene        |   |   |   |
| formaldehyde       |   |   |   | X | xylenol       |   | X |   |
| furural            |   |   |   | X | zirconium     |   |   |   |
| guthion            |   |   |   | X |               |   |   |   |
| isoprene           |   |   |   | X |               |   |   |   |

- A. KNOWN TO BE PRESENT  
 B. SUSPECTED TO BE PRESENT  
 C. KNOWN TO BE ABSENT  
 D. SUSPECTED TO BE ABSENT